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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	Not yet assigned	
			Filing Date	April 15, 2004	
			First Named Inventor	David Michael Young	
			Art Unit	Unknown	
			Examiner Name	Unknown	
Sheet	1	of	3	Attorney Docket Number	UF-174D4

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number – Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
NN	U1	US-5,242,817	09/07/1993	Kelly <i>et al</i>	All
NN	U2	US-5,391,489	02/21/1995	Kelly <i>et al</i>	All
	U3				All
	U4				All

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
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Sheet	2	of	3	Attorney Docket Number	UF-174D4

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
NN	R1	ABRAHMSEN, L., et al. "Engineering subtilisin and its substrates for efficient ligation of peptide bonds in aqueous solution" <i>Biochemistry</i> (1991) 30:4151-4159.	
	R2	BLUMENTALS, I.I., et al. "Characterization of sodium dodecyl sulfate-resistant proteolytic activity in the hyperthermophilic Archaeobacterium <i>Pyrococcus furiosus</i> " <i>Appl. and Environ. Microbiol.</i> (1990) 56(7):1992-1998.	
	R3	BRENNAN, M.B. "Enzyme discovery heats up: enzymes that could maximize industrial processing reactions are reaped from exotic microorganisms" <i>C&amp;EN</i> (1996) October:31-33.	
	R4	CASTELLAN, G.W. "Physical Chemistry", (2 <sup>nd</sup> Edition), pp. 245-247; Addison-Wesley Publishing Comp., Reading, MA.	
	R5	CHANG, et al., "Protease I from <i>Pyrococcus furiosus</i> ", <i>Methods in Enzymology</i> (2001), 330:403-413.	
	R6	CHRISTENEN, U., et al. "Mechanism of carboxypeptidase-Y-catalyzed peptide symisynthesis" <i>Eur. J. Biochem.</i> (1992) 210:467-473.	
	R7	DE VOS, W.M., et al., "Purification, characterization, and molecular modelling of pyrolysin and other extracellular thermostable serine proteases from hyperthermophilic microorganisms", <i>Methods in Enzymology</i> (2001), 330:383-393.	
	R8	EGGEN, R., et al. "Characterization of pyrolysin, a hyperthermocactive serine protease from the Archaeobacterium <i>Pyrococcus furiosus</i> " <i>FEMS Microbiol. Lett.</i> (1990) 71:17-20.	
	R9	FERSHT, A. "Enzyme Structure and Mechanism" 2 <sup>nd</sup> Edition, W.H. Freeman and Company, New York, (1985) pp. 89-90.	
	R10	FIALA, G. AND STETTER, K.O. " <i>Pyrococcus furiosus</i> s. Nev. represents a novel genus of marine heterotrophic Archaeobacteria growing optimally at 100°" <i>Arch Microbiol.</i> (1986) 145:56-61.	
	R11	HALIO, S.B., et al. "Sequence, expression in <i>Escherichia coli</i> , and analysis of the gene encoding a novel intracellular protease (Pfpl) from the hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> " <i>J. Bacteriol.</i> (1996) 178(9):2605-2612.	
	R12	JENCKS W.P. "Catalysis in Chemistry and Enzymology" Dover Publication, Inc., New York, (1987) pp. 312-313.	
NN	R13	NAKATSUKA, T. et al., "Peptide segment coupling catalyzed by the semisynthetic enzyme thiolsubtilisin" <i>J. Am Chem. Soc.</i> (1987) 109:3808-3810.	

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NN	R14	PETKOV, D.D. "Enzyme peptide synthesis and semisynthesis: kinetic and thermodynamic aspects" <i>J. Thero. Biol.</i> (1982) 98:419-425.	
NN	R15	STETTER, K.O. "Microbial life in hyperthermal environments" <i>ASM News</i> (1995) 61(6):285-290.	
NN	R16	STETTER, K.O., <i>et al.</i> , "Hyperthermophilic microorganisms", <i>FEMS Microbiol. Rev.</i> (1990), 75:117-124.	
NN	R17	VOORHORST, W. <i>et al.</i> "Isolation and characterization of the hyperthermostable serine protease, pyrolysin, and its gene from the hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> " <i>J. Biol. Chem.</i> (1996) 271(34):20426-20431.	
NN	R18	VOORHORST, W.G.B., <i>et al.</i> "Homology modeling of two subtilisin-like serine proteases from the hyperthermophilic Archaea <i>Pyrococcus furiosus</i> and <i>Thermococcus stetteri</i> " <i>Protein Engineering</i> (1997) 10(8):905-914.	
NN	R19	WOESE, C.R., <i>et al.</i> , "Towards a natural system of organisms : proposal for the domains Archaea, Bacteria, and Eucarya", <i>Proc. Natl. Acad. Sci. USA</i> (1990) 87:4576-4579.	
	R20		
	R21		
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